

Express Mail Mailing Label: EV 327 617 611 US  
 Title: SYSTEM AND METHOD FOR PROVIDING JAVA BASED HIGH  
 AVAILABILITY CLUSTERING FRAMEWORK  
 Inventors: Mesut Gunduc and Tena Heller  
 Application No.: Unassigned  
 Docket No.: BEAS-01119US1  
 Attorney: Karl F. Kenna

Filing Date: Filed Herewith  
 Telephone No. (415) 362-3800

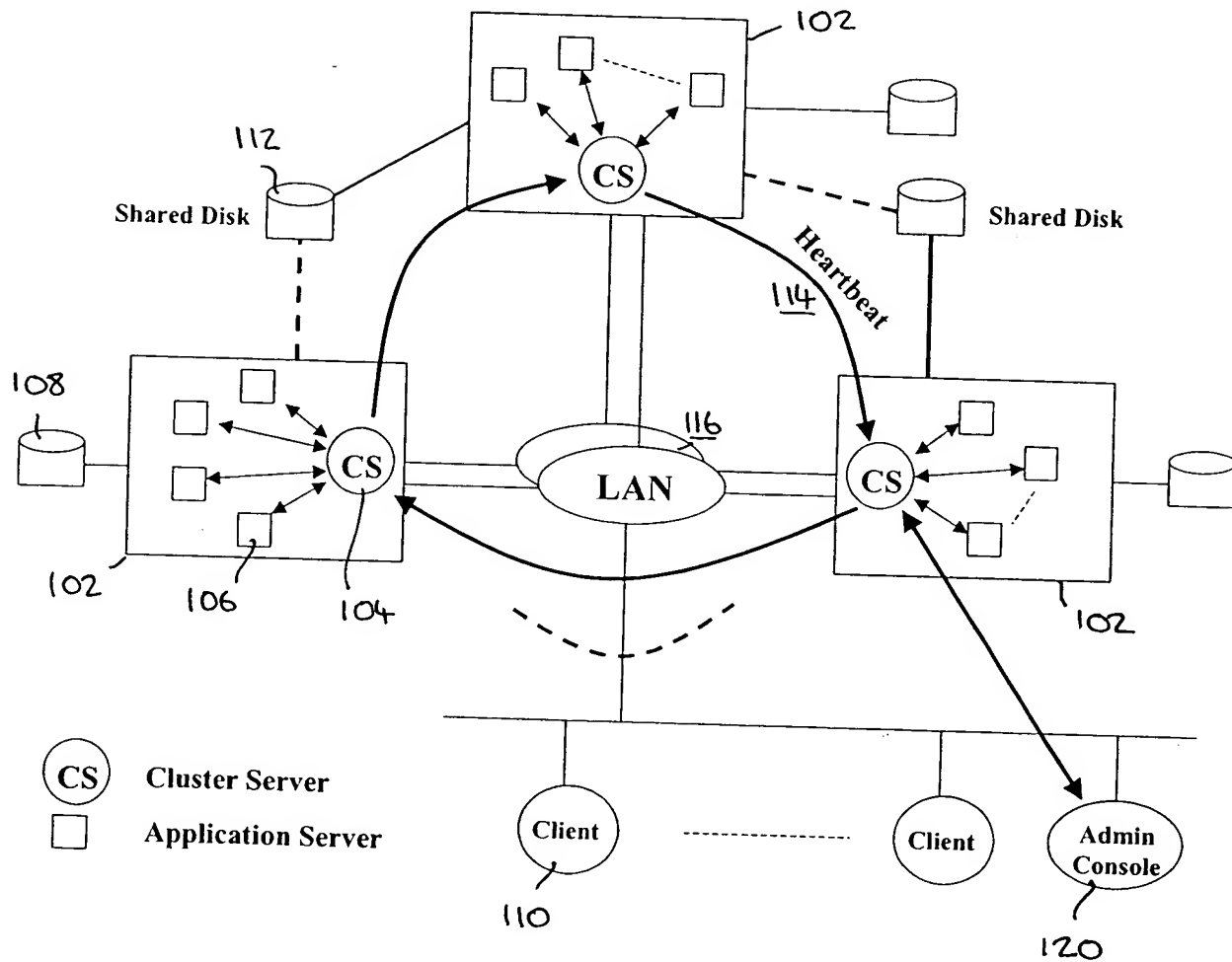


Figure 1

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## Cluster Node View

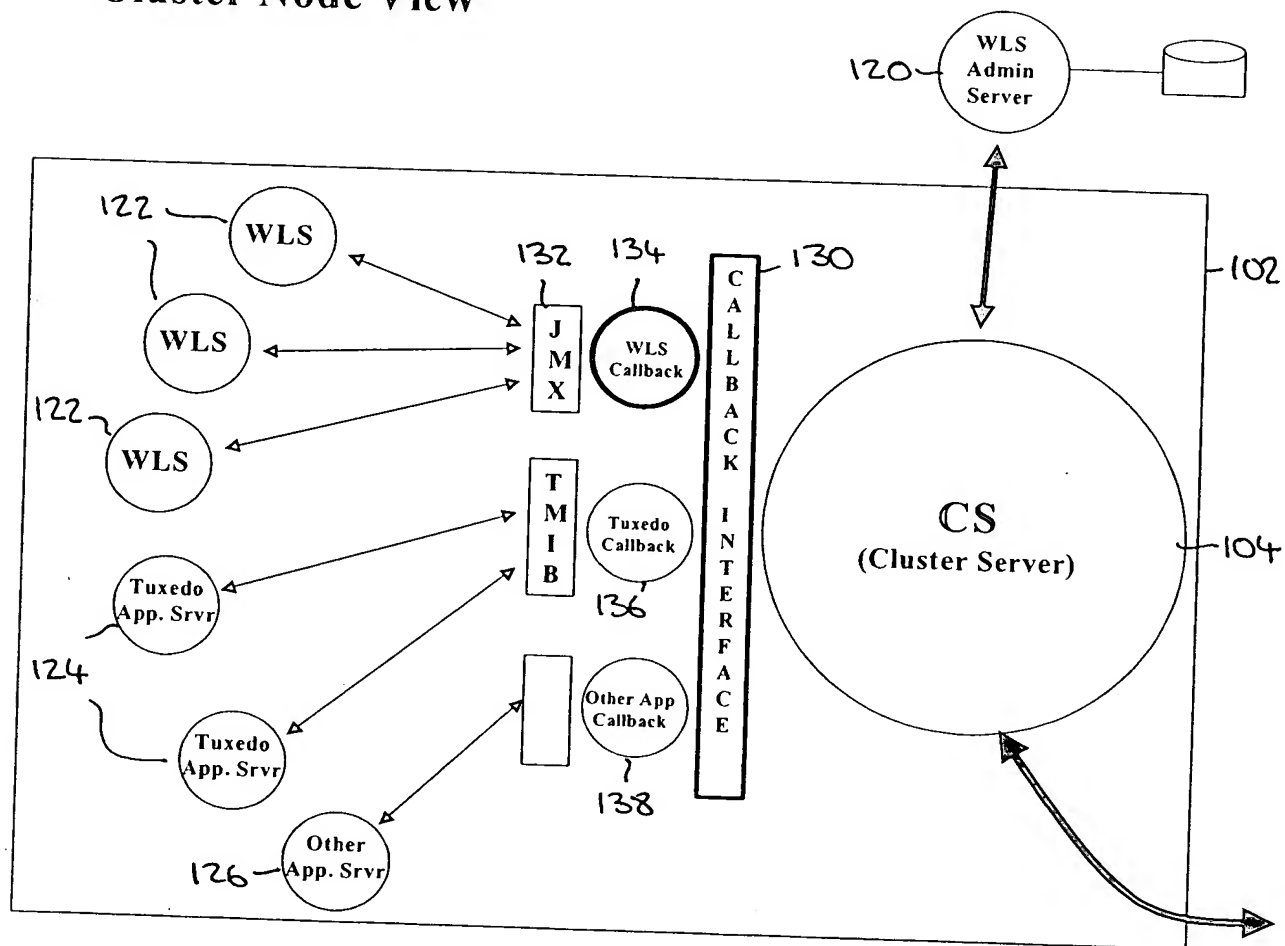


Figure 2

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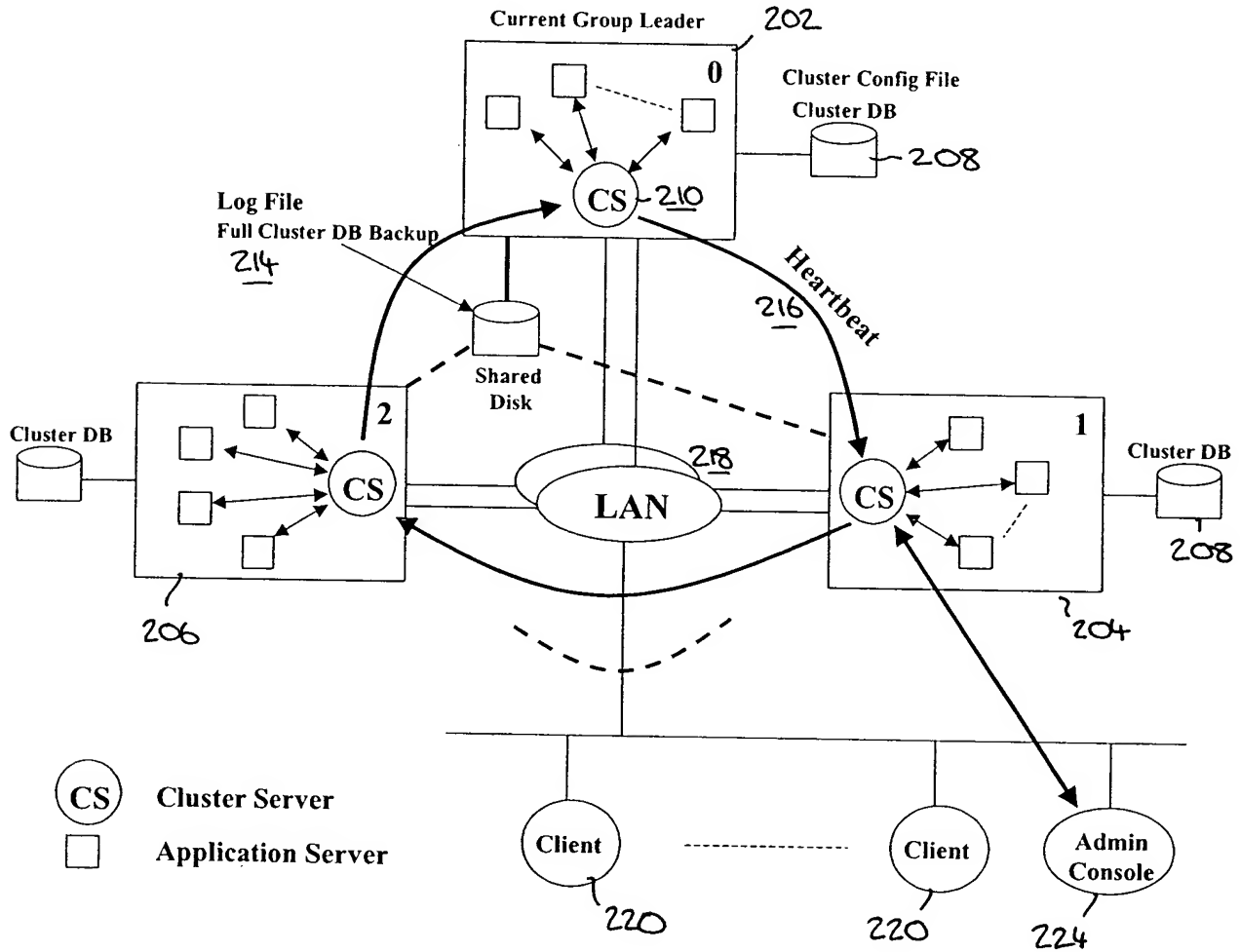


Figure 3

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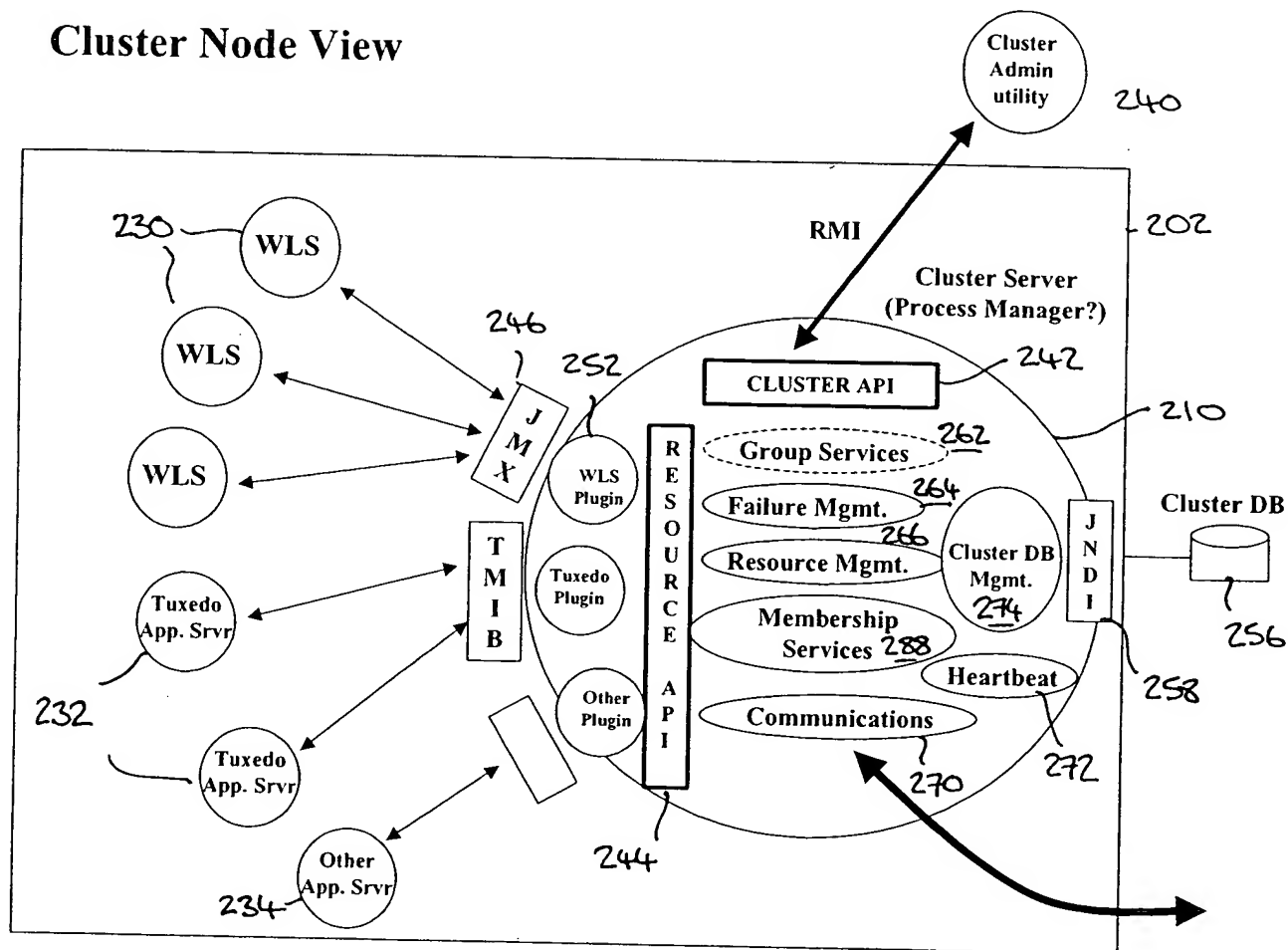


Figure 4

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## Anatomy of A Cluster Server

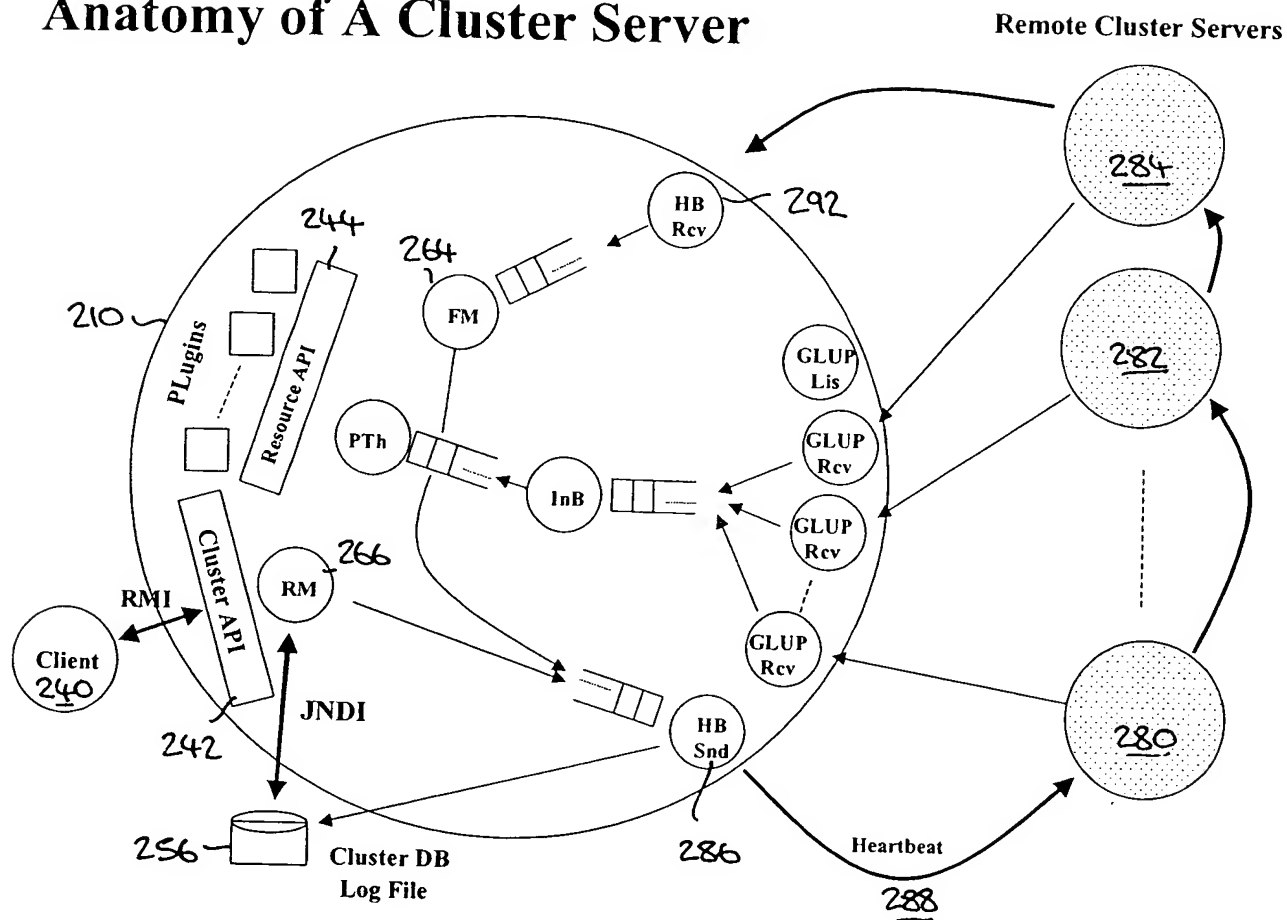


Figure 5

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# Heartbeat Flow

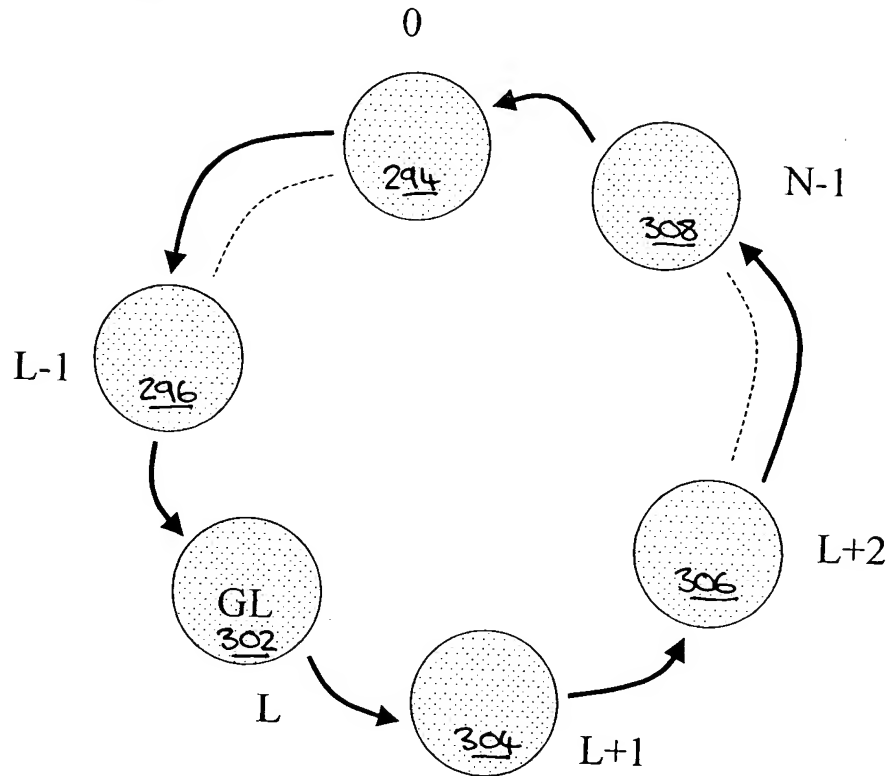


Figure 6

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## Heartbeat Flow

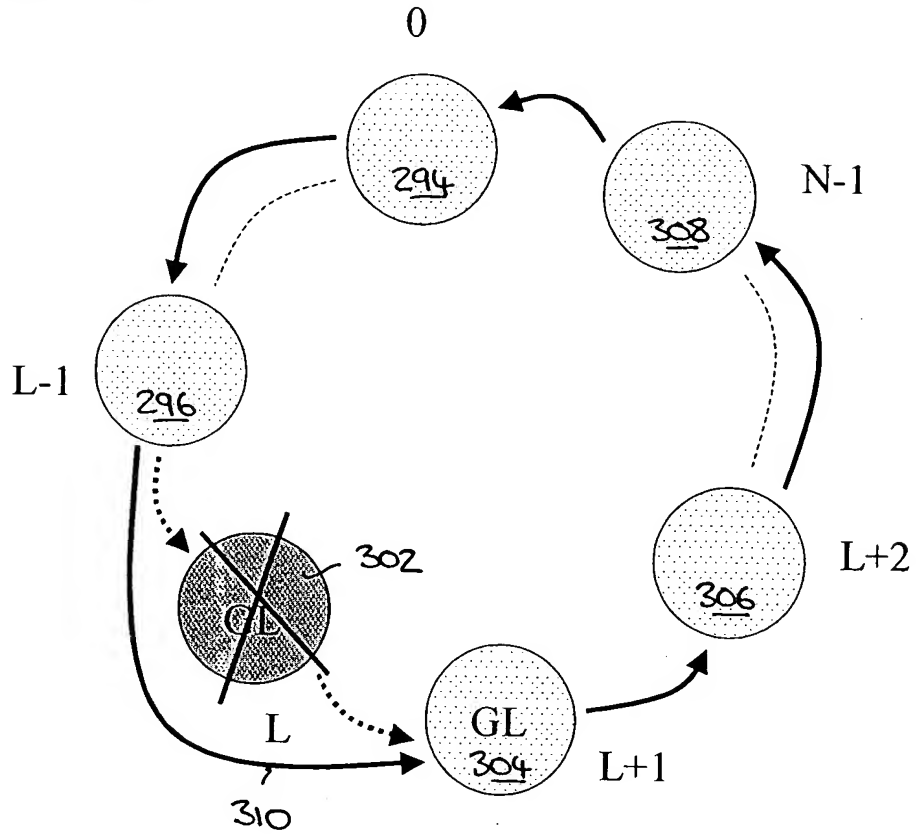


Figure 7

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## GLUP - Traffic Flow

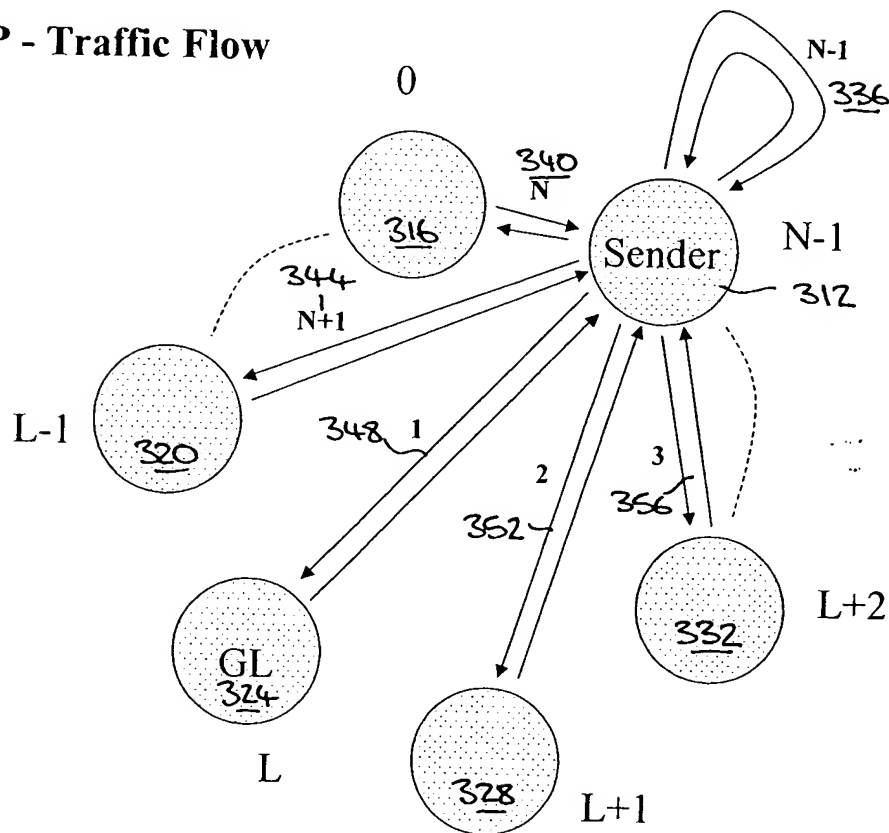


Figure 8



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## GLUP using Multicast - Traffic Flow

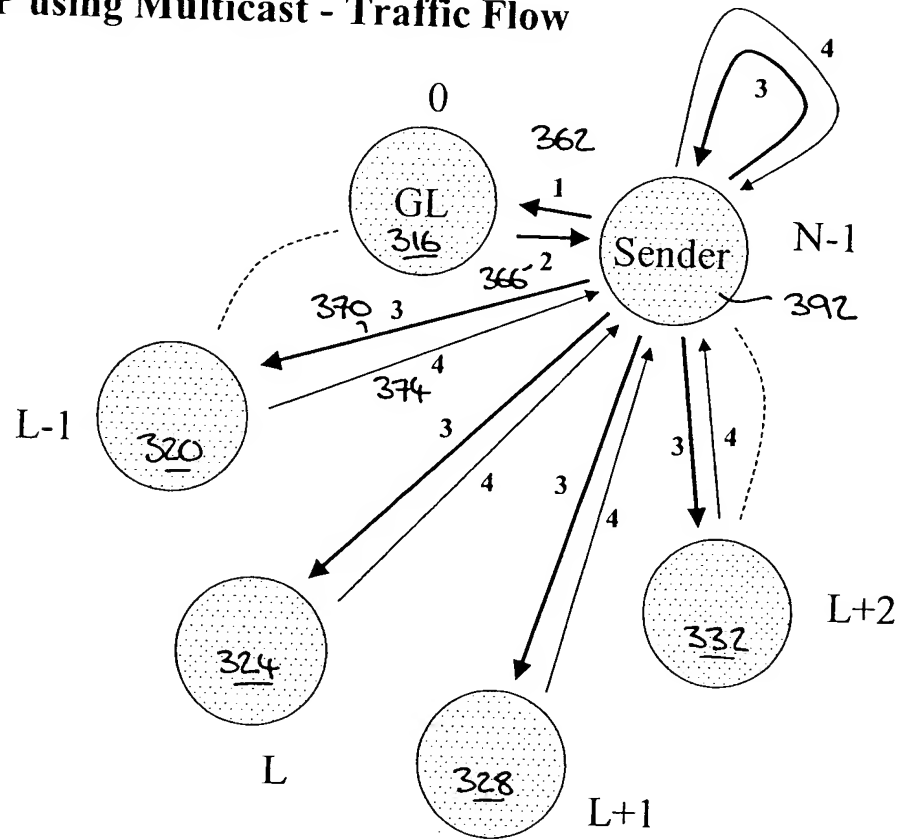


Figure 9

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# Data Base Structure

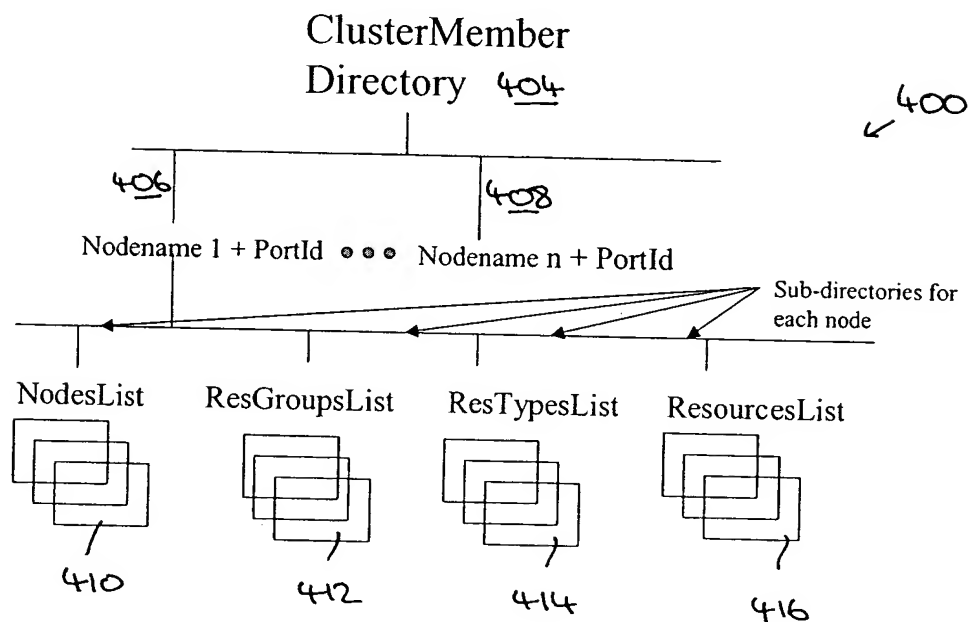


Figure 10

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# Log File

## Circular File

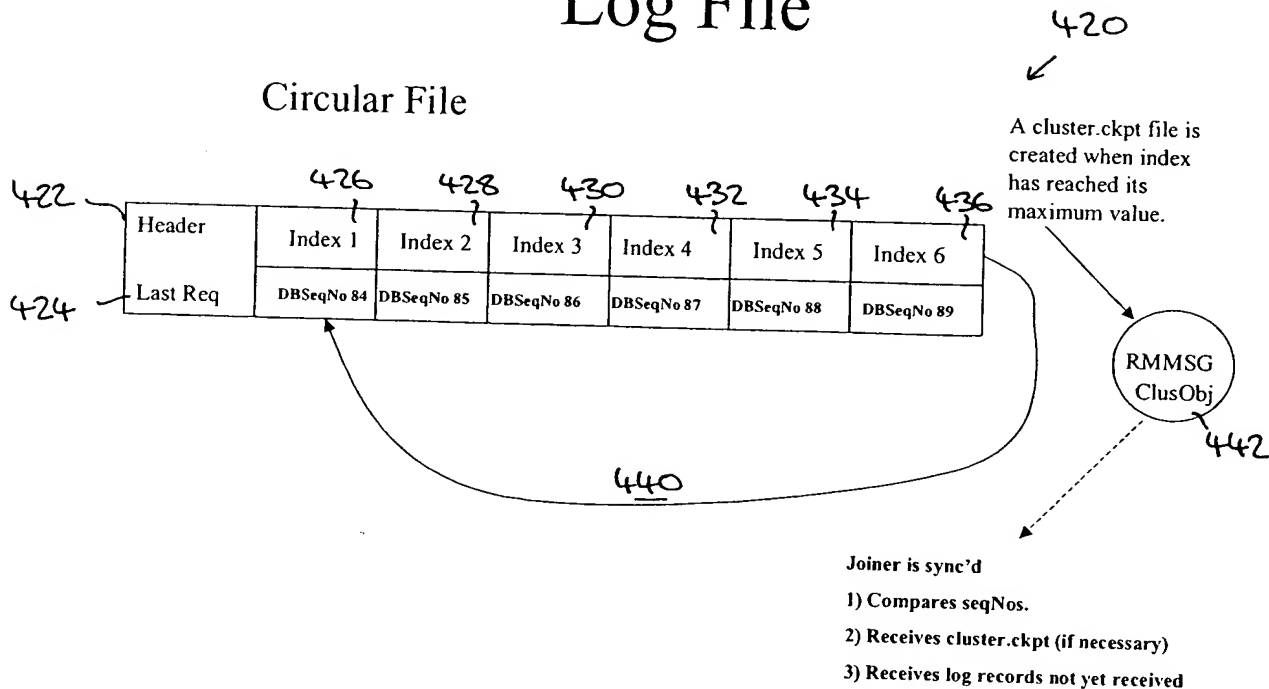


Figure 11

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## Client Access through RMI

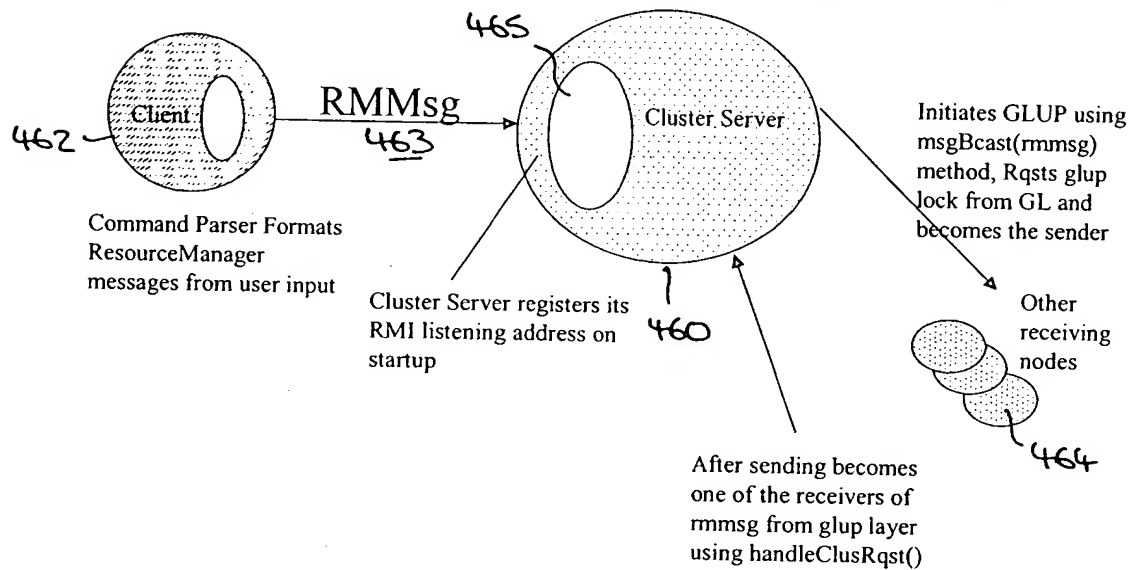


Figure 12

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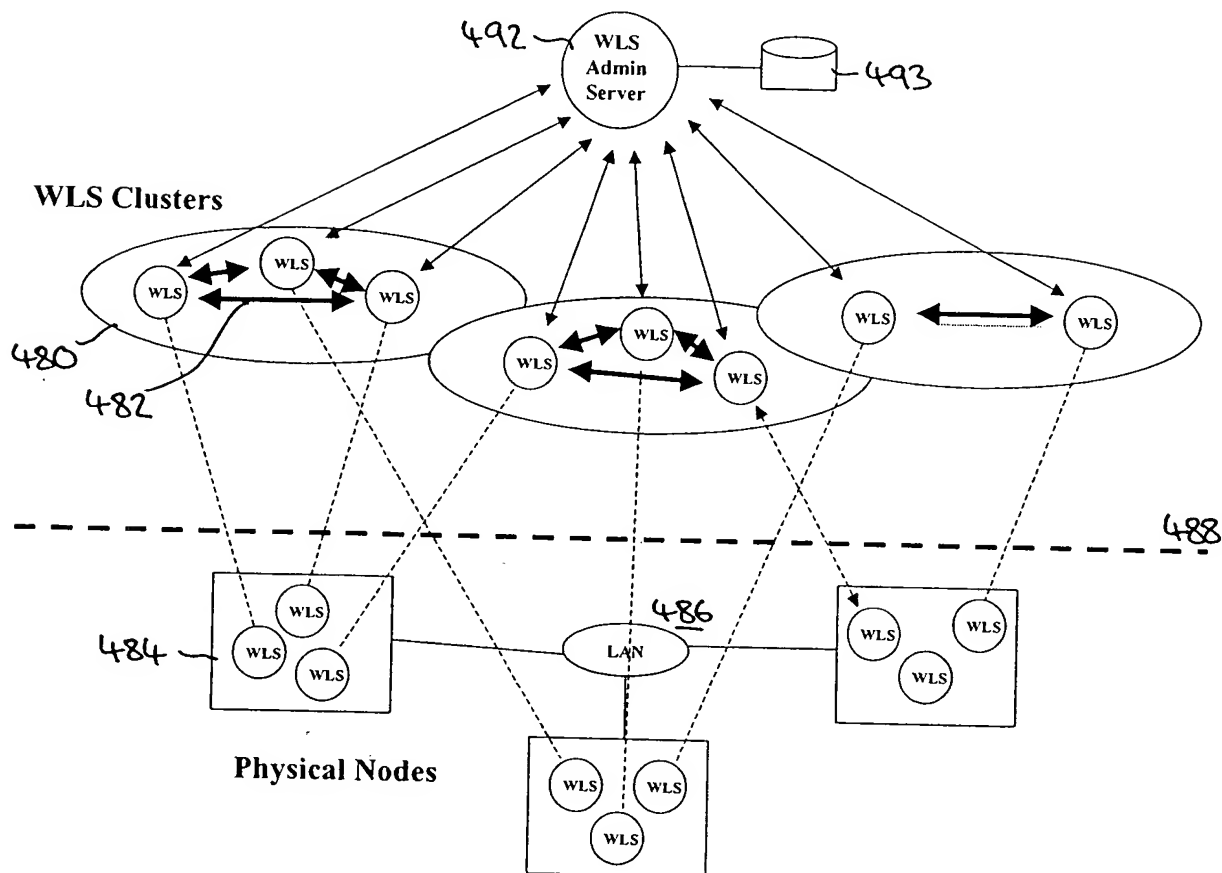


Figure 13

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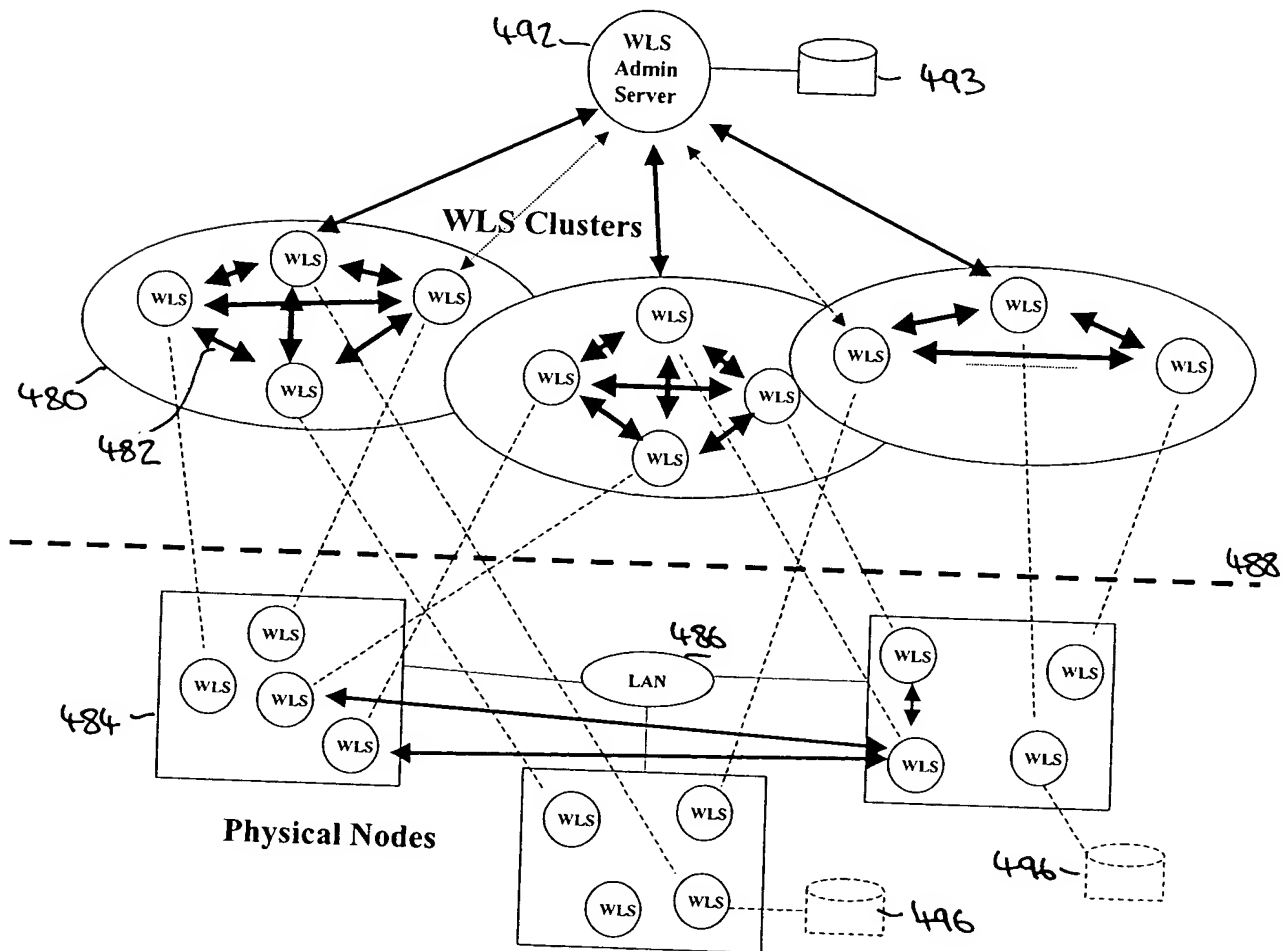


Figure 14

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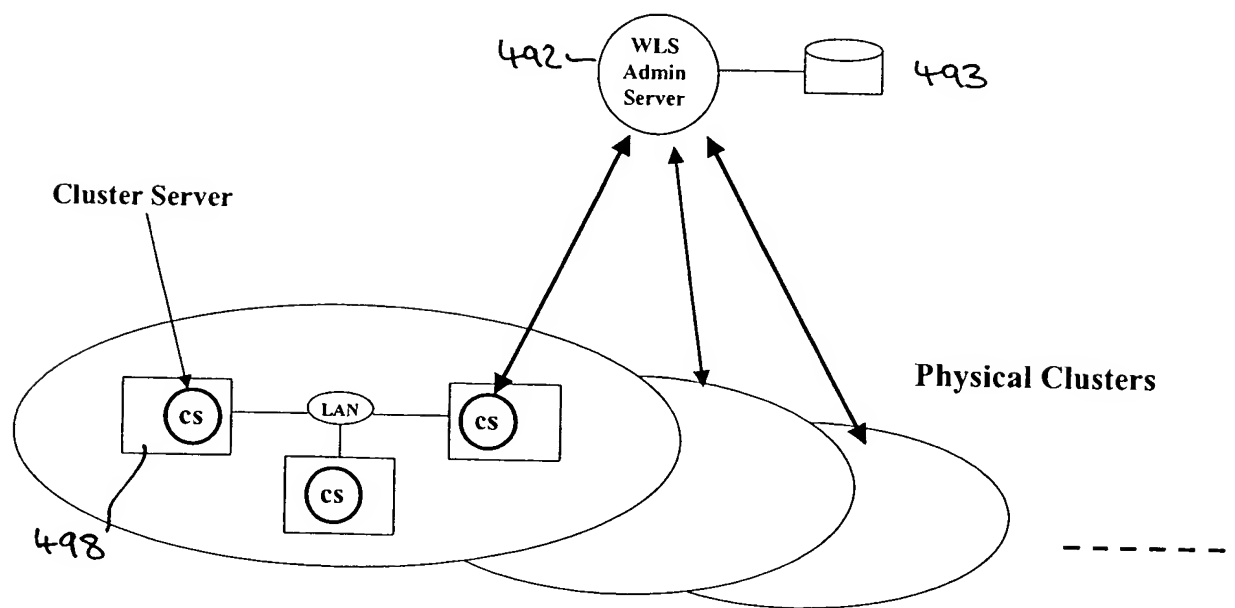


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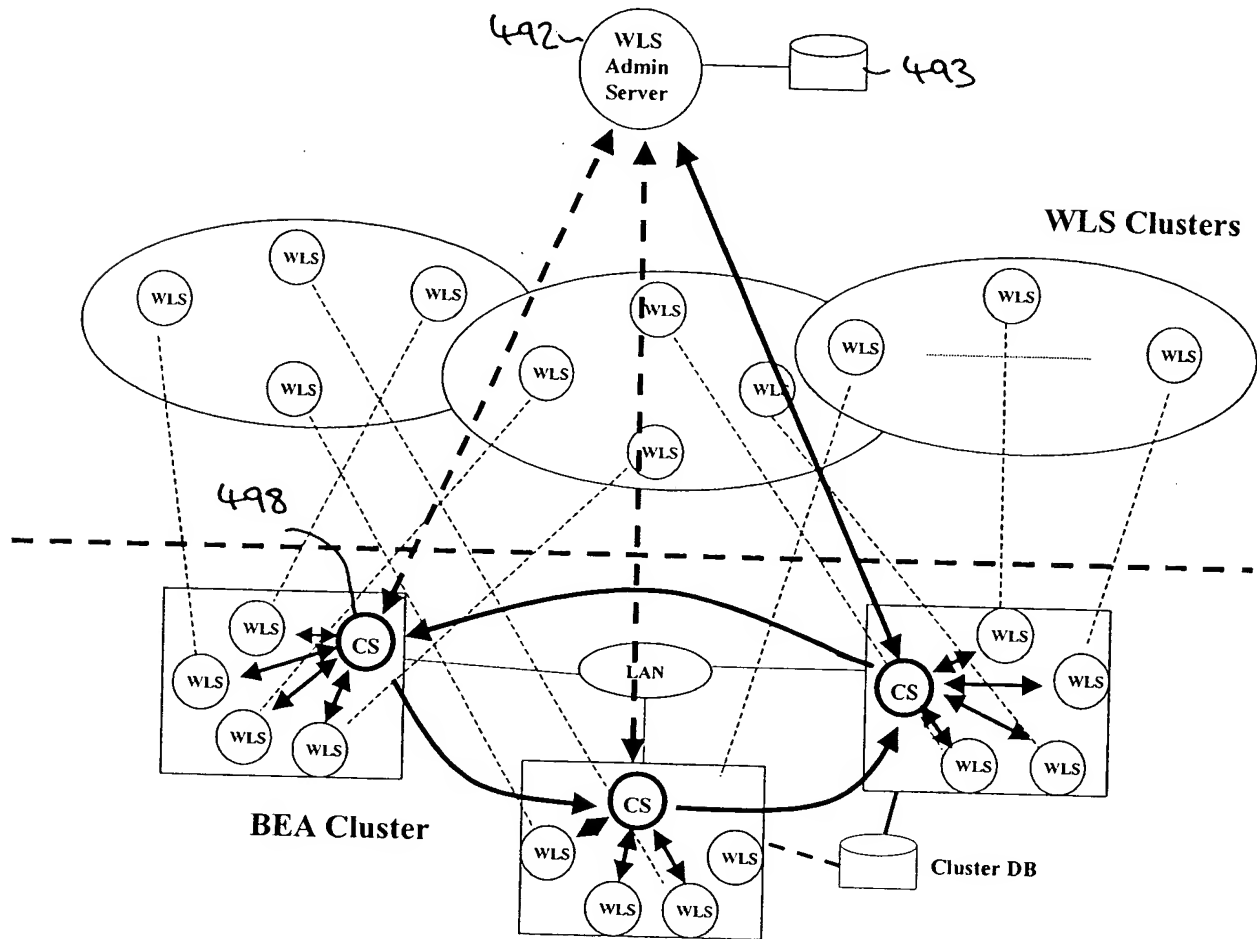


Figure 16



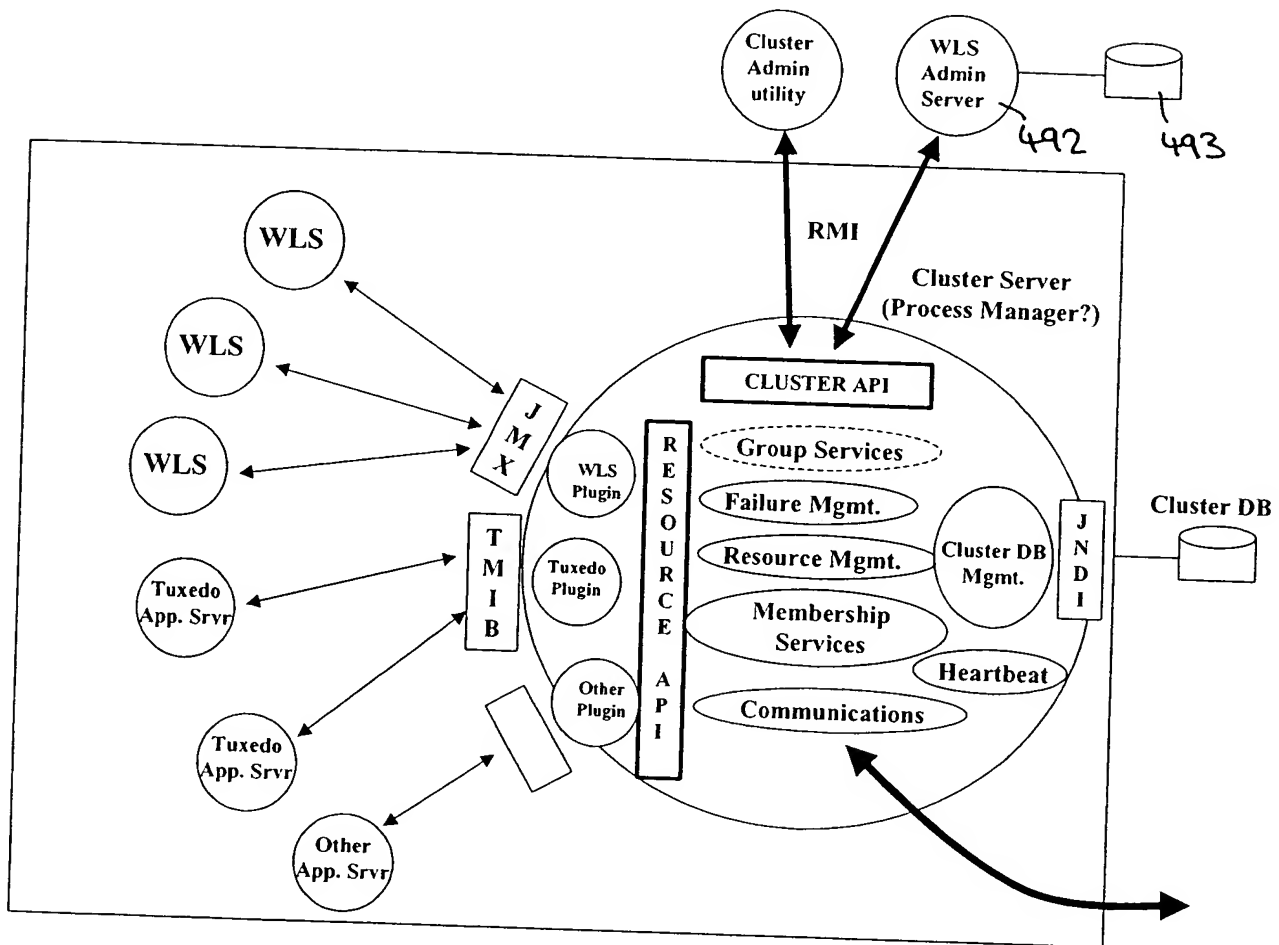


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# Process Groups

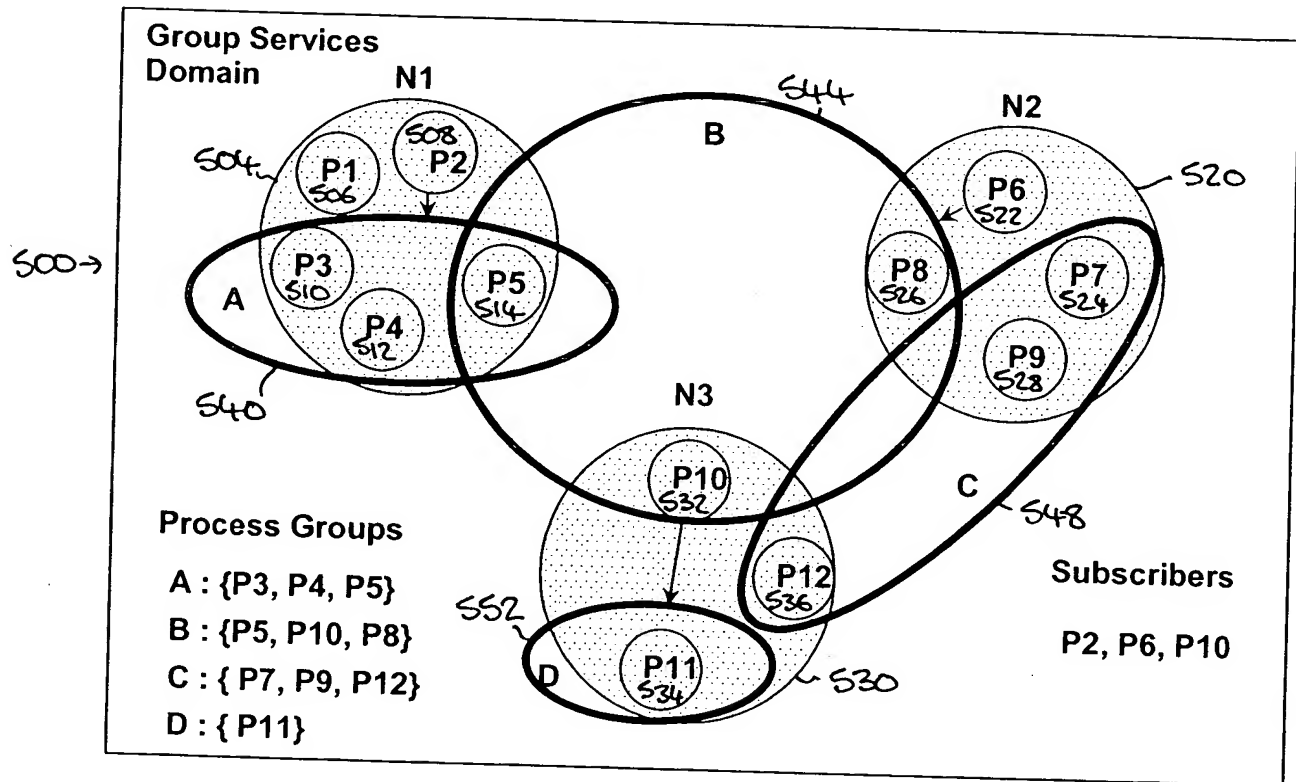


Figure 18